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SPACE OPERATIONS CONTROL CENTER

SATELLITE SITUATION REPORT

VOL. 2, NO. 15

PREPARED BY
OPERATIONS BRANCH
OPERATIONS AND SUPPORT DIVISION

AUGUST 31, 1962

GODDARD SPACE FLIGHT CENTER
GREENBELT, MD.

SPACE OPERATIONS CONTROL CENTER
GODDARD SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GREENBELT, MARYLAND

VOLUME 2, No. 15 AUGUST 31, 1962

SATELLITE SITUATION REPORT

THE FOLLOWING REPORT REFLECTS DATA COMPUTED AND COMPILED BY GODDARD SPACE FLIGHT CENTER, NORAD, AND SMITHSONIAN ASTROPHYSICAL OBSERVATORY AS OF 1430Z ON AUGUST 31, 1962.

RALPH R. STROBLE
HEAD, OPERATIONS BRANCH

TM X -50,221

OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1958 LAUNCHES								
ALPHA 1	EXPLORER I	US	1 FEB	105.5	33.20	1691	361	
BETA 1	ROCKET BODY	US	17 MAR	138.3	34.26	4318	657	
BETA 2	VANGUARD I	US	17 MAR	133.8	34.25	3938	654	108.024
1959 LAUNCHES								
ALPHA 1	VANGUARD II	US	17 FEB	125.3	32.88	3285	562	
ALPHA 2	ROCKET BODY	US	17 FEB	129.6	32.93	3635	587	
ETA 1	VANGUARD III	US	18 SEP	129.8	33.37	3719	520	
MU 1*	LUNIK I	USSR	2 JAN	450D	0.01	1.315AU	0.9766AU	
NU 1*	PIONEER IV	US	3 MAR	398D	1.30	1.142AU	0.9871AU	
IOTA 1	EXPLORER VII	US	13 OCT	101.1	50.30	1072	557	
IOTA 2	ROCKET BODY	US	13 OCT	100.9	50.30	1062	547	
1960 LAUNCHES								
ALPHA 1*	PIONEER V	US	11 MAR	311.6D	3.35	0.995AU	0.8061AU	
BETA 1	ROCKET BODY	US	1 APR	99.1	48.39	746	689	
BETA 2	TIROS I	US	1 APR	99.1	48.38	731	710	
BETA 3	NONE	US	1 APR	97.8	48.48	701	614	
BETA 4	NONE	US	1 APR	99.8	48.17	805	702	
GAMMA 2	TRANSIT 1B	US	13 APR	94.5	51.25	644	348	
GAMMA 4	NONE	US	13 APR	96.8	51.25	727	487	
EPSILON 1	SPUTNIK IV	USSR	15 MAY	88.6	64.94	210	196	
EPSILON 3	NONE	USSR	15 MAY	92.6	64.96	521	279	
ZETA 1	MIDAS II	US	24 MAY	94.2	33.04	529	447	
ETA 1	TRANSIT 2A	US	22 JUN	101.6	66.70	1063	608	
ETA 2	GREB	US	22 JUN	101.6	66.69	1061	608	
ETA 3	ROCKET BODY	US	22 JUN	101.4	66.67	1043	607	
IOTA 1	ECHO I	US	12 AUG	115.8	47.26	1894	1094	
IOTA 2	ROCKET BODY	US	12 AUG	118.0	47.20	1705	1482	
IOTA 3	METAL OBJECT	US	12 AUG	118.2	47.21	1680	1523	
IOTA 4	METAL OBJECT	US	12 AUG	INSUFFICIENT OBSERVATIONS				

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1960 LAUNCHES (CONT'D)								
IOTA 5	METAL OBJECT	US	12 AUG	118.3	47.28	1678	1542	
NU 1	COURIER IB	US	4 OCT	106.9	28.34	1222	958	
NU 2	ROCKET BODY	US	4 OCT	106.4	28.30	1197	939	
XI 1	EXPLORER VIII	US	3 NOV	112.4	49.96	2272	406	
XI 2	ROCKET BODY	US	3 NOV	112.1	49.93	2245	406	
XI 3	NONE	US	3 NOV	110.3	49.39	2085	406	
XI 4	NONE	US	3 NOV	111.3	50.50	2157	420	
PI 1	TIROS II	US	23 NOV	98.2	48.52	739	610	
PI 2	ROCKET BODY	US	23 NOV	98.1	48.47	707	632	
PI 3	NONE	US	23 NOV	98.1	48.51	733	611	
PI 4	NONE	US	23 NOV	98.2	48.50	734	623	
1961 LAUNCHES								
ALPHA 1	SAMOS II	US	31 JAN	94.9	97.43	552	465	
ALPHA 2	METAL OBJECT	US	31 JAN	94.8	97.43	551	462	
GAMMA 1*	VENUS PROBE	USSR	12 FEB	300D	0.58	1.0190AU	0.7183AU	
DELTA 1	EXPLORER IX	US	16 FEB	117.8	38.86	2445	727	
DELTA 2	ROCKET BODY	US	16 FEB	118.4	38.83	2575	653	
DELTA 3	NONE	US	16 FEB	INSUFFICIENT OBSERVATIONS				
KAPPA 1	EXPLORER X	US	25 MAR	POSITION UNCERTAIN				
NU 1	EXPLORER XI	US	27 APR	107.8	28.85	1782	487	
OMICRON 1	TRANSIT IV-A	US	29 JUN	103.8	66.81	1001	877	54;150;324;400
OMICRON 2	INJUN-SR-3	US	29 JUN	103.8	66.81	1001	878	136.5
OMICRON 3-27**	METAL OBJECTS	US	29 JUN					
OMICRON 29-45**	METAL OBJECTS	US	29 JUN					
OMICRON 47-120**	METAL OBJECTS	US	29 JUN					
RHO 1	TIROS III	US	12 JUL	100.3	47.89	811	745	
RHO 2	ROCKET BODY	US	12 JUL	100.3	47.90	810	741	
RHO 3	METAL OBJECT	US	12 JUL	98.8	47.93	792	617	
RHO 4	METAL OBJECT	US	12 JUL	101.9	47.86	925	783	
SIGMA 1	MIDAS III	US	12 JUL	161.5	91.24	3498	3392	
SIGMA 3	METAL OBJECT	US	12 JUL	161.2	91.15	3538	3324	
SIGMA 4	METAL OBJECT	US	12 JUL	161.9	91.18	3558	3365	

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1961 LAUNCHES CONT'D								
UPSILON 1	EXPLORER XII	US	16 AUG	INSUFFICIENT OBSERVATIONS				
A DELTA 1	MIDAS IV	US	21 OCT	166.0	95.86	3760	3492	
A DELTA 3	METAL OBJECT	US	21 OCT	165.6	95.85	3718	3502	
A DELTA 4	METAL OBJECT	US	21 OCT	166.4	95.90	3783	3502	
A EPSILON 1	DISCOVERER XXXIV	US	5 NOV	93.1	82.49	616	234	
A ETA 1	TRANSIT IV-B	US	15 NOV	105.6	32.43	1111	951	
A ETA 2	TRAAC	US	15 NOV	105.6	32.42	1112	952	
A ETA 3	ROCKET BODY	US	15 NOV	105.5	32.44	1080	969	
1962 LAUNCHES								
ALPHA 1*	RANGER III	US	26 JAN	406.4D	.3988	1.163AU	0.9839AU	
ALPHA 2	ROCKET BODY	US	26 JAN	INSUFFICIENT OBSERVATIONS				
BETA 1	TIROS IV	US	8 FEB	100.3	48.29	853	700	136.23;136.92
BETA 2	ROCKET BODY	US	8 FEB	101.3	48.15	951	695	
BETA 3	METAL OBJECT	US	8 FEB	99.4	48.43	767	700	
BETA 4	METAL OBJECT	US	8 FEB	100.2	48.29	820	727	
ZETA 1	ORB. SOL. OBS. 1	US	7 MAR	95.9	32.84	595	545	136.744
ZETA 2	ROCKET BODY	US	7 MAR	96.0	32.84	620	527	
ETA 1		US	7 MAR	92.9	90.89	579	244	
ETA 3		US	7 MAR	91.7	90.87	479	232	
IOTA 1	COSMOS II	USSR	6 APR	99.7	48.95	1284	210	
IOTA 2	ROCKET BODY	USSR	6 APR	94.2	48.89	768	197	
KAPPA 1		US	9 APR	153.0	86.73	3375	2819	
KAPPA 3		US	9 APR	152.7	86.67	3366	2798	
KAPPA 4		US	9 APR	153.4	86.63	3426	2798	
MU 2	ROCKET BODY	US	23 APR	INSUFFICIENT OBSERVATIONS				
NU 1	COSMOS 3	USSR	24 APR	91.6	48.95	494	219	
OMICRON 1	ARIEL	US/UK	26 APR	100.8	53.85	1216	382	136.408
OMICRON 2	ROCKET BODY	US/UK	26 APR	100.8	53.83	1216	384	

OBJECTS IN ORBIT (CONT'D)

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1962 LAUNCHES CONT'D								
SIGMA 1		US	15 MAY	93.6	82.35	602	298	
UPSILON 1	COSMOS 5	USSR	28 MAY	100.7	49.02	1398	190	20.006
UPSILON 2	ROCKET BODY	USSR	28 MAY	99.2	49.02	1254	193	
OMEGA 1		US	18 JUN	92.3	82.14	401	364	
A ALPHA 1	TIROS V	US	19 JUN	100.5	58.07	972	591	136.235;136.922
A ALPHA 2	ROCKET BODY	US	19 JUN	100.4	58.09	958	599	
A ALPHA 3	METAL OBJECT	US	19 JUN	101.7	58.18	1081	603	
A ALPHA 4	METAL OBJECT	US	19 JUN	99.1	57.97	866	567	
A GAMMA 1		US	28 JUN	90.4	76.04	391	190	
A DELTA 1	COSMOS 6	USSR	30 JUN	89.2	48.93	238	238	
A EPSILON 1	TELSTAR 1	US	10 JUL	157.7	44.82	5634	956	136.05
A EPSILON 2	ROCKET BODY	US	10 JUL	157.5	44.78	5584	992	
A XI 1	COSMOS 8	USSR	18 AUG	92.9	49.04	587	254	
A XI 2	ROCKET BODY	USSR	18 AUG	92.8	48.98	570	257	
A OMICRON 1		US	23 AUG	99.6	98.62	847	625	
A OMICRON 2		US	23 AUG	98.3	98.59	741	612	
A OMICRON 3		US	23 AUG	100.9	98.56	975	619	
A PI 2		USSR	25 AUG	88.5	64.88	247	158	
A PI 3		USSR	25 AUG	88.8	65.59	299	131	
A PI 4		USSR	25 AUG	90.1	65.83	387	169	
A RHO 1	MARINER 2	US	27 AUG	HELIOCENTRIC ORBIT				
A RHO 2	ROCKET BODY	US	27 AUG					
A SIGMA 1		US	29 AUG	90.4	65.16	403	184	

*APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

**ONE HUNDRED AND EIGHTEEN METAL OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LISTS.

PLEASE ADD THE FOLLOWING TO THE DECAYED OBJECTS LIST

OBJECT	CODE NAME	SOURCE	LAUNCH	DECAY
1961 A LAMBDA 1		US	22 DEC 61	14 AUG 62
1962 A ETA 1		US	21 JUL 62	14 AUG 62
1962 A THETA 1		US	28 JUL 62	24 AUG 62
1962 A IOTA 2	ROCKET BODY	USSR	28 JUL 62	21 AUG 62
1962 A KAPPA 1		US	2 AUG 62	26 AUG 62
1962 A MU 1	VOSTOK III	USSR	11 AUG 62	15 AUG 62*
1962 A NU 1	VOSTOK IV	USSR	12 AUG 62	15 AUG 62*
1962 A PI 1		USSR	25 AUG 62	28 AUG 62
1962 A PI 5		USSR	25 AUG 62	30 AUG 62

*USSR ANNOUNCED THE SUCCESSFUL RECOVERY OF A MANNED SPACE VEHICLE